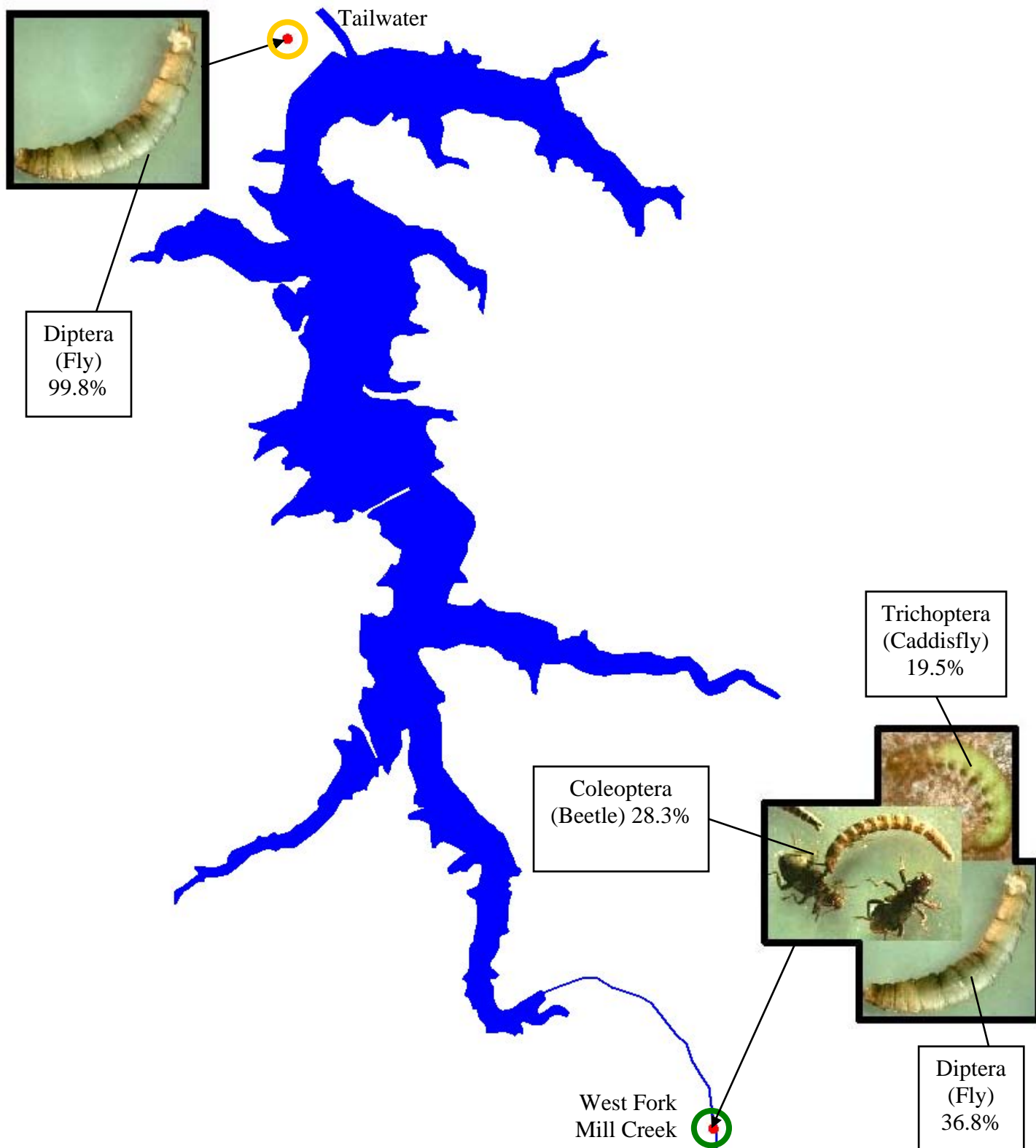


Aquatic Insects' Community Structure  
West Fork Lake Analysis  
September 1, 2004

Relative abundance of dominant taxa found at each of the sites shown below.



COMMUNITY METRICS *	West Fork Lake	
	Tailwater	W. Fork Mill Cr
Collection Date	9/1/04	9/1/04
Total Number of Taxa	23	32
% Contribution of Dominant Taxa	85	53
Modified Hilsenhoff Biotic Index (0, good – 10, bad)	7.64	5.20
Shannon-Wiener Index	1.75	2.86
Number of Ephemeroptera Taxa	0	3
% Ephemeroptera Taxa (Abundance)	0	13
Number of Plecoptera Taxa	0	0
% Plecoptera Taxa (Abundance)	0	0
Number of Trichoptera Taxa	2	5
% Trichoptera Taxa (Abundance)	0	17
Number of EPT Taxa	2	8
% EPT Taxa	0	30
Number of Dipteran Taxa	10	14
% Dipteran Taxa	91	32
Number of Chironomid Taxa	9	11
% Chironomid Taxa	91	31
Number of Tanytarsini Taxa	1	1
% Tanytarsini Taxa	6	9
Number of Orthoclaadiinae Taxa	3	3
% Orthoclaadiinae Taxa	5	5
% Cricotopus + Chironomus/Total Chiron.	2	17
Number of Dipteran Taxa – Tanytarsini and other Non-Insect Taxa	17	19
% Dipteran Taxa - Tanytarsini and other Non-Insect Taxa	93	36
Ratio of EPT to Chiron. Abundance	0.00	0.98
Percent Tolerant Organisms	44	7
Numbers of Individuals / m <sup>2</sup>	10,297	989
* Based on 4 replicate surber samples Substrate sampled – small stones		

#### 4 Most Abundant Taxa at the Tailwater

1. Glyptotendipes sp. (Diptera) 43.2%
2. Polypedilum flavum (Diptera) 35.7%
3. Tanytarsus (Diptera) 6.9%
4. Dicrotendipes neomodestus (Diptera) 4%
5. Polypedilum illinoense (Diptera) 3.5%

#### 5 Most Abundant Taxa on the W. Fork Mill Cr

1. Psephenus herricki (Coleoptera) 13.8%
2. Cheumatopsyche sp. (Trichoptera) 13.2%
3. Stenelmis sp. (Coleoptera) 12.9%
4. Polypedilum flavum (Diptera) 10.4%
5. Tanytarsus sp. (Diptera) 10.1%